	Application No.	Applicant(s)
	09/694,416	COLLINS ET AL.
Notice of Allowability	Examiner	Art Unit
	Matthew B. Smithers	2137
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The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject	oplication. If not included n will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>an amendment filed F</u>	ebruary 15, 2007.	
2. The allowed claim(s) is/are <u>1-6,9-12,14-23 and 34-66</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All _ b) ☐ Some* c) ☐ None of the:		
Certified copies of the priority documents have		
2. Certified copies of the priority documents have		
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply IENT of this application.	complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER reason(s) why the oath or declara	R'S AMENDMENT or NOTICE OF ation is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) I including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO	-948) attached
1) 🗌 hereto or 2) 🗍 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the 0	Office action of
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawing the header according to 37 CFR 1.121	ings in the front (not the back) of (d).
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the CAL MATERIAL.
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. D Notice of Informal F	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	<ol> <li>Interview Summary Paper No./Mail Da</li> </ol>	/ (PTO-413),
3. Information Disclosure Statements (PTO/SB/08),	7. Examiner's Amend	
Paper No./Mail Date <u>See Continuation Sheet</u> 4.   Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Statem	ent of Reasons for Allowance
of Biological Material	9.	

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 10/20/00; 6/26/01; 2/15/07.

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#### **DETAILED ACTION**

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### Allowable Subject Matter

Claims 1-6, 9-12, 14-23, and 34-66 are allowed.

The following is an examiner's statement of reasons for allowance: The present invention is directed to a method and system for strengthening the composite portion of the public key while reducing the computational effort for calculating exponentiations for a given composite number. Each of the independent claims identify the uniquely distinct features of "developing k distinct random prime numbers PI, P2 ...., Pk, wherein k is an integer greater than 2; and wherein for a given number of digits for composite numbers n and m, it takes fewer computational cycles to perform the deciphering step if the k distinct random prime numbers are used, relative to the number of computational cycles for performing a deciphering step if the pair of prime numbers p and q is used instead". The closest prior arts, Vanstone et al, and the combination of Itakura with Rivest, disclose conventional methods for computing a composite number "n" from prime numbers, but both fail to anticipate or render the above underlined limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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#### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew B. Smithers whose telephone number is (571) 272-3876. The examiner can normally be reached on Monday-Friday (8:00-4:30) EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel L. Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Mắtthew & Smither Primary Examiner Art Unit 2137



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
90/005,733	05/18/2000	5848259	C72370US	7105
7	7590 02/15/2008		EXAMINER	
HEWLETT-P	ACKARD COMPAN	ΙΥ		
Intellectual Pro	perty Administration			
P.O. Box 2724			ART UNIT	PAPER NUMBER
Fort Collins, C	CO 80527-2400			

DATE MAILED: 02/15/2008

Please find below and/or attached an Office communication concerning this application or proceeding.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
90/005,776	07/28/2000	5848159		6878
7590 02/15/2008			EXAMINER	
	ACKARD COMPA	NY		
Intellectual Property Administration P.O. Box 272400				PAPER NUMBER
Fort Collins, C	O 80527-2400			

DATE MAILED: 02/15/2008

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